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 L A V S D A L G R P S E E D E E L V V P E L E R A P  
 GGACACGGGACCACGCGCCTCCGCTGCACGCCTTTGACCAGCAGCTGGATCTGGAGCTGCGGCCCCGACAGCAGCTTT  
 G H G T T R L R L H A F D Q Q L D L E L R P D S S F  
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 L A P G F T L Q N V G R K S G S E T P L P E T D L A  
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 H C F Y S G T V N G D P S S A A A L S L C E G V R G  
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 V V D D E P R P T G K A E T E D E D E G T E G E D E  
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 G P Q W S P Q D P A L Q G V G Q P T G T G S I R K K  
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 R F V S S H R Y V E T M L V A D Q S M A E F H G S G  
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 L K H Y L L T L F S V A A R L Y K H P S I R N S V S  
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 L V V V K I L V I H D E Q K G P E V T S N A A L T L  
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 R N F C N W Q K Q H N P P S D R D A E H Y D T A I L  
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 S R S C S V I E D D G L Q A A F T T A H E L G H V F  
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 L S N L D H S Q P W S P C S A Y M I T S F L D N G H  
 GGGGAATGTTTGATGGACAAGCCTCAGAATCCCATACAGCTCCCAGGCGATCTCCCTGGCACCTCGTACGATGCCAAC  
 G E C L M D K P Q N P I Q L P G D L P G T S Y D A N  
 CGGCAGTGCCAGTTTACATTTGGGGAGGACTCCAAACACTGCCCTGATGCAGCCAGCACATGTAGCACCTTGTGGTGT  
 R Q C Q F T F G E D S K H C P D A A S T C S T L W C  
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 T G T S G G V L V C Q T K H F P W A D G T S C G E G  
 AAATGGTGTATCAACGGCAAGTGTGTGAACAAAACCGACAGAAAGCATTTTGATACGCCTTTTCATGGAAGCTGGGGA  
 K W C I N G K C V N K T D R K H F D T P F H G S W G

FIGURE 1

66E730" 259E2E60

ATGTGGGGGCTTGGGGGAGACTGTTTCGAGAACGTGCGGTGGAGGAGTCCAGTACACGATGAGGGAATGTGACAACCCA  
M W G P W G D C S R T C G G G V Q Y T M R E C D N P  
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V P K N G G K Y C E G K R V R Y R S C N L E D C P D  
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N N G K T F R E E Q C E A H N E F S K A S F G S G P  
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A V E W I P K Y A G V S P K D R C K L I C Q A K G I  
GGCTACTTCTTCGTTTTGCAGCCCAAGGTTGTAGATGGTACTCCATGTAGCCAGATTCCACCTCTGTCTGTGTGCAA  
G Y F F V L Q P K V V D G T P C S P D S T S V C V Q  
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G Q C V K A G C D R I I D S K K K F D K C G V C G G  
AATGGATCTACTTGTAATAAATATCAGGATCAGTTACTAGTGCAAACCTGGATATCATGATATCATCACAAATTCCA  
N G S T C K K I S G S V T S A K P G Y H D I I T I P  
ACTGGAGCCACCAACATCGAAGTGAAACAGCGGAACCAGAGGGGATCCAGGAACAATGGCAGCTTTCTTGCCATCAAA  
T G A T N I E V K Q R N Q R G S R N N G S F L A I K  
GCTGCTGATGGCACATATATTCTTAATGGTGAAGTACTACTTTGTCCACCTTAGAGCAAGACATTATGTACAAAGGTGTT  
A A D G T Y I L N G D Y T L S T L E Q D I M Y K G V  
GTCTTGAGGTACAGCGGCTCCTCTGCGGCATTGGAAAGAATTTCGAGCTTTAGCCCTCTCAAAGAGCCCTTGACCATC  
V L R Y S G S S A A L E R I R S F S P L K E P L T I  
CAGGTTCTTACTGTGGGCAATGCCCTTCGACCTAAATTAATAACACCTACTTCGTAAAGAAGAAGAAGGAATCTTTC  
Q V L T V G N A L R P K I K Y T Y F V K K K K E S F  
AATGCTATCCCCACTTTTTTCAGCATGGGTCAATTGAAGAGTGGGGCGAATGTTCTAAGTCATGTGAATTGGGTTGGCAG  
N A I P T F S A W V I E E W G E C S K S C E L G W Q  
AGAAGACTGGTAGAATGCCGAGACATTAATGGACAGCCTGCTTCCGAGTGTGCAAAGGAAGTGAAGCCAGCCAGCACC  
R R L V E C R D I N G Q P A S E C A K E V K P A S T  
AGACCTTGTGCAGACCATCCCTGCCCCAGTGGCAGCTGGGGGAGTGGTCATCATGTTCTAAGACCTGTGGGAAGGGT  
R P C A D H P C P Q W Q L G E W S S C S K T C G K G  
TACAAAAAAGAAGCTTGAAGTGTCTGTCCCATGATGGAGGGGTGTTATCTCATGAGAGCTGTGATCCTTTAAAGAAA  
Y K K R S L K C L S H D G G V L S H E S C D P L K K  
CCTAAACATTTTCATAGACTTTTGCACAATGGCAGAATGCAGTTAAGTGGTTTAAGTGGTGTAGCTTTGAGGCAAGGC  
P K H F I D F C T M A E C S  
AAAGTGAGGAAGGGCTGGTGCAGGGAAAGCAAGAAGGCTGGAGGGATCCAGCGTATCTTGCCAGTAACCAAGTGAGGTG  
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TTTTGTTACATCTATTACAAGTTTAGAAAAAACAAGCAATTGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAGG  
GCGGCCGCTCTAGAGGATCCCTCGAGGGGCCAAGCTTACGCGTGCATGNTGTCATNAGTCTN

FIGURE 1



0037556 "00150" 00150

GTACAGTTTTACACCGTGAGTGCAAGGACCCCGAGCCTCAGAATGGAGGAAGATACTGCCTGGGTCCGAGAGCCAAG  
V Q F S H R E C K D P E P Q N G G R Y C L G R R A K  
TACCAGTCATGCCACACGGAGGAATGCCCCCTGACGGGAAAAGCTTCAGGGAGCAGCAGTGTGAGAAGTATAATGCC  
Y Q S C H T E E C P P D G K S F R E Q Q C E K Y N A  
TACAATTACACTGACATGGACGGGAATCTCCTGCAGTGGGTCCCCAAGTATGCTGGGGTGTCCCCCGGGACCGCTGC  
Y N Y T D M D G N L L Q W V P K Y A G V S P R D R C  
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K L F C R A R G R S E F K V F E A K V I D G T L C G  
CCAGAAACACTGGCCATCTGTGTCCGTGGCCAGTGTGTCAAGGCCGGCTGTGACCATGTGGTGGACTCGCCTCGGAAG  
P E T L A I C V R G Q C V K A G C D H V V D S P R K  
CTGGACAAATGCGGGGTGTGTGGGGGCAAAGGCAACTCCTGCAGGAAGGTCTCCGGGTCCCTCACCCCCACCAATTAT  
L D K C G V C G G K G N S C R K V S G S L T P T N Y  
GGCTACAATGACATTGTCACCATCCCAGCTGGTGCCACTAATATTGACGTGAAGCAGCGGAGCCACCCGGGTGTGCAG  
G Y N D I V T I P A G A T N I D V K Q R S H P G V Q  
AACGATGGGAACTACCTGGCGCTGAAGACGGCTGATGGGCAGTACCTGCTCAACGGCAACCTGGCCATCTCTGCCATA  
N D G N Y L A L K T A D G Q Y L L N G N L A I S A I  
GAGCAGGACATCTTGGTGAAGGGGACCATCCTGAAGTACAGCGGCTCCATCGCCACCCTGGAGCGCCTGCAGAGCTTC  
E Q D I L V K G T I L K Y S G S I A T L E R L Q S F  
CGGCCCTTGCCAGAGCCTCTGACAGTGCAGCTCCTGACAGTCCCTGGCGAGGTCTTCCCCCAAAAGTCAAATACACC  
R P L P E P L T V Q L L T V P G E V F P P K V K Y T  
TTCTTTGTTCTTAATGACGTGGACTTTAGCATGCAGAGCAGCAAAGAGAGAGCAACCACCAACATCATCCAGCCGCTG  
F F V P N D V D F S M Q S S K E R A T T N I I Q P L  
CTCCACGCACAGTGGGTGCTGGGGGACTGGTCTGAGTGTCTAGCACCTGCGGGGCCGGCTGGCAGAGGCGAACTGTA  
L H A Q W V L G D W S E C S S T C G A G W Q R R T V  
GAGTGCAGGGACCCCTCCGGCCAGGCCTCTGCCACCTGCAACAAGGCTCTGAAACCCGAGGATGCCAAGCCCTGCGAA  
E C R D P S G Q A S A T C N K A L K P E D A K P C E  
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S Q L C P L  
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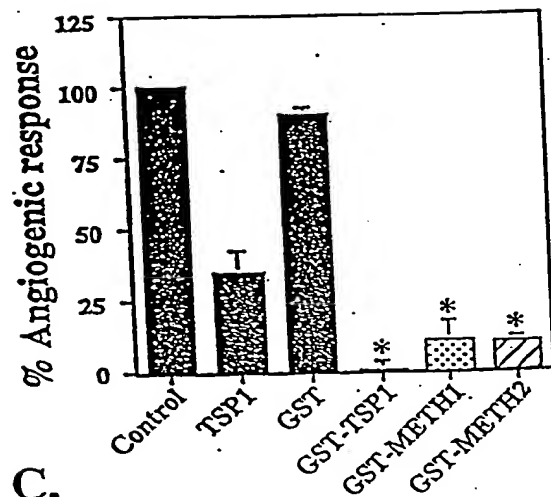
FIGURE 2



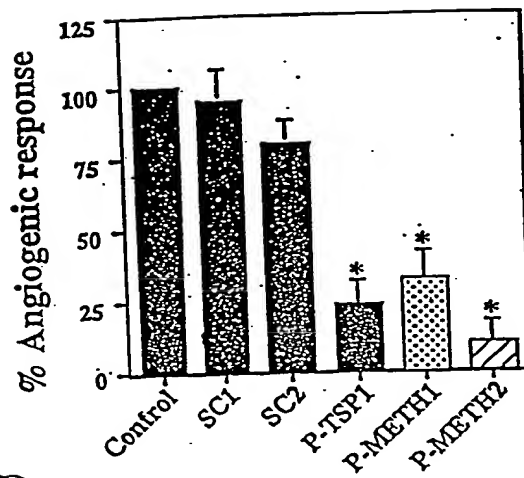


666730 8592260

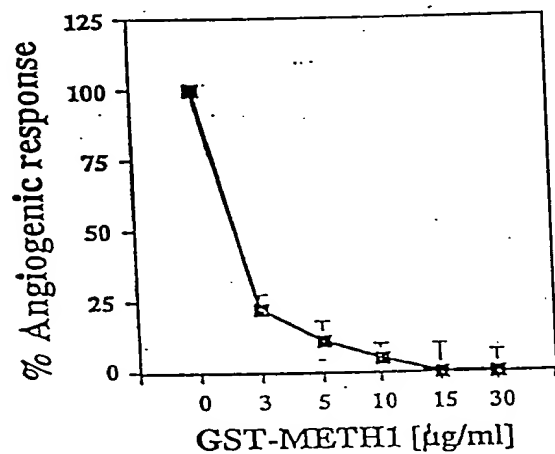
A.



B.



C.



D.

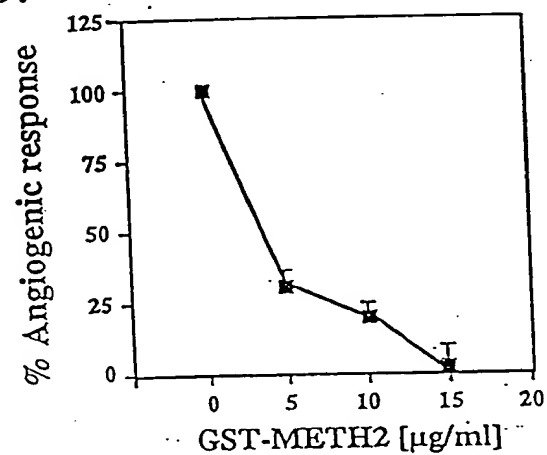
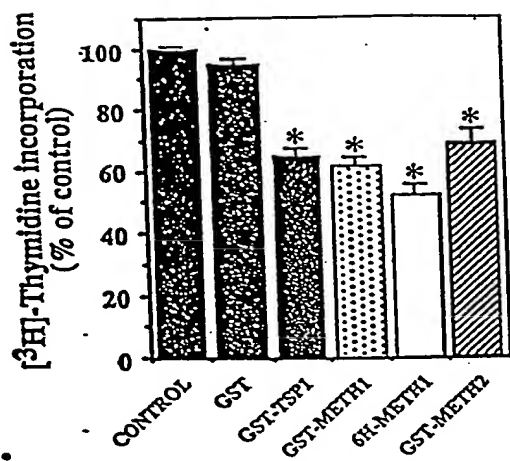


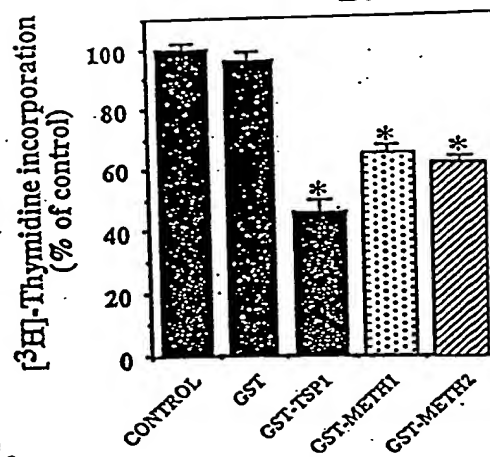
Figure 6



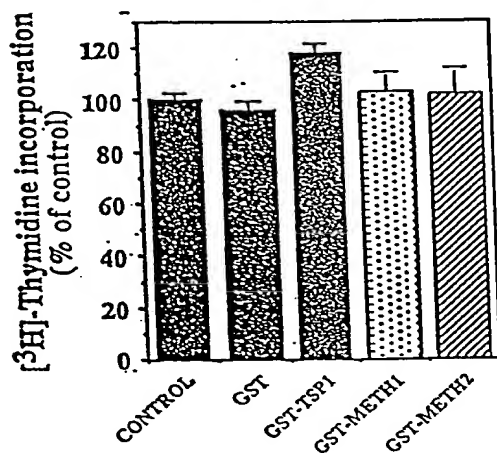
A.



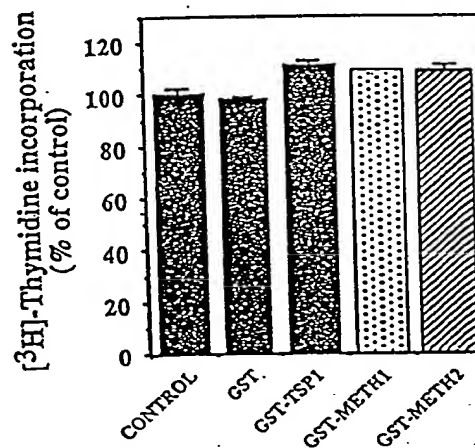
B.



C.



D.



E.

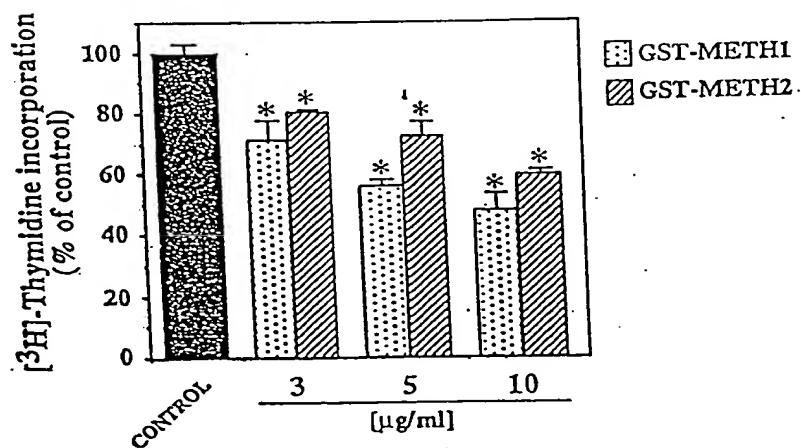


Figure 7

FIGURE 8

Figure 9

-35-

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## Operator 2

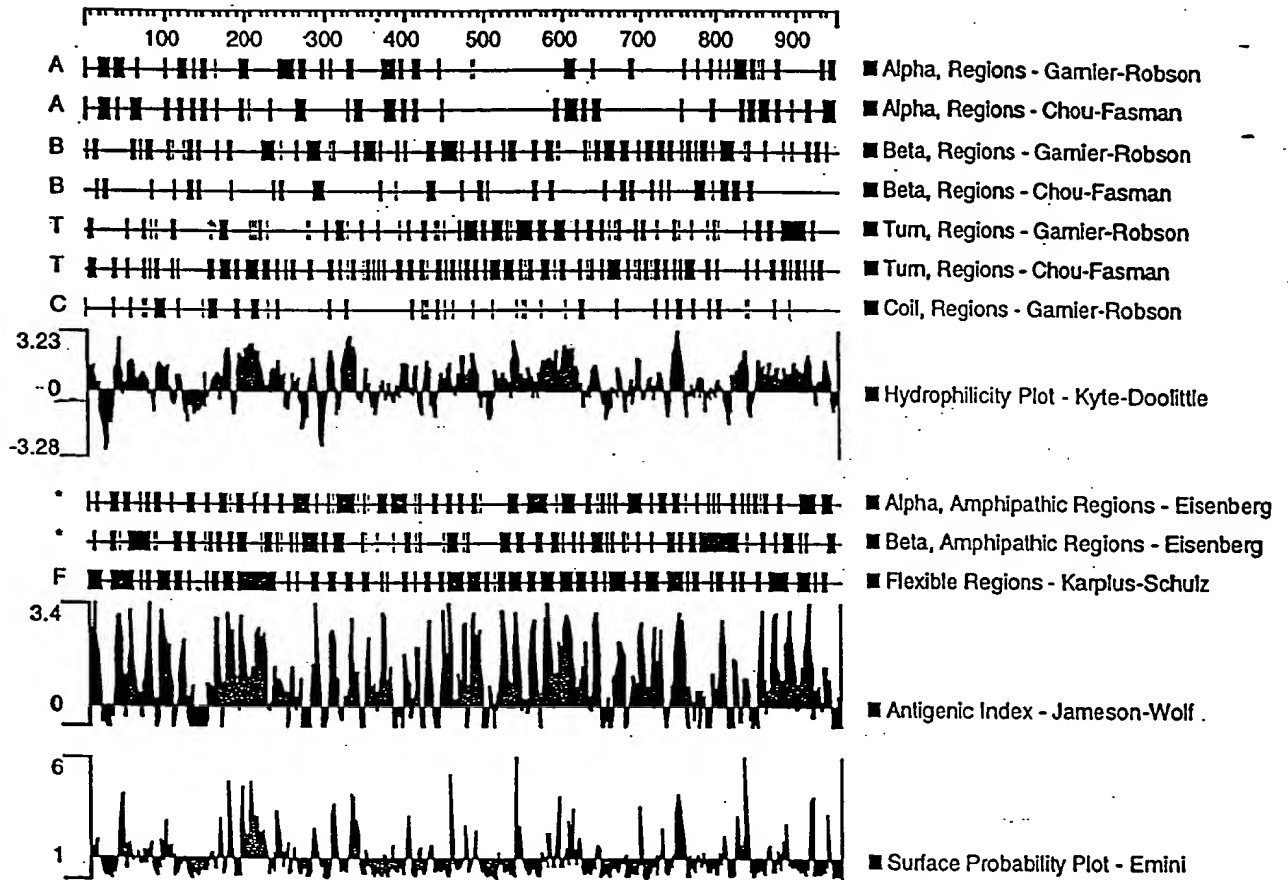
10

50 TAAGATGTACCCA(ATTGTTGAGCGGATTAAGAA)TTCACATTAA

SD

94 AGGAG AATA CATATG

Figure 10



00373668 001390  
002180 05962660

Figure 11

